

Claims.

- 5 1. Blowing nozzle for supporting a weft thread in a
weaving machine, provided with a flow-through
canalisation (17) for a fluid tracing a bend (20)
near the free end of the blowing nozzle (3) to
subsequently flow into the environment via at least
10 one outlet opening (18), whereby a jet pipe (21) is
formed in this flow-through canalisation (17),
characterised in that the above-mentioned jet pipe
(21) is integrated in the above-mentioned bend (20).
- 15 2. Blowing nozzle according to claim 1, characterised in
that the flow-through canalisation (17) is made such
that it narrows from the part preceding the narrowest
section up to this narrowest section of the jet
nozzle (21), in particular the critical section (22).
- 20 3. Blowing nozzle according to claim 1 or 2,
characterised in that the jet pipe (21) has a
critical section (22) which is situated at least
partially half-way (H1) the blowing nozzle (3)
25 situated opposite the half (H2) in which the outlet
opening (18) has been provided, in relation to the
longitudinal axis (L) of the blowing nozzle (3).
- 30 4. Blowing nozzle according to any of the preceding
claims, characterised in that the jet pipe (21) has a
critical section (22) which forms an angle (A) with

the longitudinal axis (L) of the blowing nozzle (3) which amounts to at least 15 degrees, and better still which is situated between 15 and 40 degrees, in the direction of the above-mentioned bend (20).

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5. Blowing nozzle according to any of the preceding claims, characterised in that the flow-through canalisation (17) is made such that it widens as of the critical section (22) of the above-mentioned jet pipe (21) up to the outlet opening (18).

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6. Blowing nozzle according to any of the preceding claims, characterised in that the part (24) of the flow-through canalisation (17) which extends as of the critical section (22) of the jet pipe (21) up to the outlet opening (18) has one or several of the following characteristics:

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- that the upper wall (25) of this part (24) is concave and/or straight as of the critical section (22) up to the outlet opening (18);
- that at least the part of the upper wall (25) of the above-mentioned part (24) which is connected to the critical section (22) is made concave;
- that the upper wall (25) of the above-mentioned part (24) is exclusively concave as of the critical section (22) up to the outlet opening (18);
- that the upper wall (25) of the above-mentioned part (24) is concave with a bend providing for a gradual change of direction of the upper wall (25) over 20 degrees at the most;

- that the lower wall of the above-mentioned part (24) has a rectilinear or almost rectilinear part (28) at least near the outlet opening (18);
 - that at least the part (27) of the lower wall which is connected directly to the critical section is made convex;
 - that the lower wall of the above-mentioned part (24) as of the critical section (22) up to the outlet opening (18) exclusively consists of a convex part (27), followed by a rectilinear or almost rectilinear part (28).
7. Blowing nozzle according to any of the preceding claims, characterised in that the narrowing part (23) preceding the critical section (22) of the jet pipe (21) has an upper wall (29) extending at least with a concave part into the critical section (22).
8. Blowing nozzle according to any of the preceding claims, characterised in that the flow-through canalisation (17) narrows from the part preceding the narrowest section up to this narrowest section (22) of the jet pipe (21), in particular the critical section (22); that the flow-through canalisation (17) widens as of the critical section (22) up to the outlet opening (18); and that the part (24) of the flow-through canalisation (17) which extends as of the critical section (22) up to the outlet opening (18) has an upper wall (25) which is made exclusively concave and a lower wall (26) which first has a

convex curve as of the critical section (22) and then follows a rectilinear or almost rectilinear curve.

- 5 9. Blowing nozzle according to any of the preceding claims, characterised in that the flow-through canalisation (17) has one or several ducts (30-32) which have a rectangular section at least at the jet pipe (21) and the following part (24).
- 10 10. Blowing nozzle according to any of the preceding claims, characterised in that the flow-through canalisation (17) has several ducts (32) which each have their own jet pipe (21) and which open into the environment via their own outlet opening (18).
- 15 11. Blowing nozzle according to claim 10, characterised in that the outlet openings (18) of the above-mentioned ducts (32) are situated exclusively next to each other, whereby they are either or not mutually
- 20 shifted in height.
12. Blowing nozzle according to claim 11, characterised in that the outlet openings are arranged step-like.
- 25 13. Blowing nozzle according to any of the preceding claims, characterised in that the blowing nozzle (3) is at least partially composed of segments (33) in between which or in which are provided one or several ducts (30-32) in order to form the flow-through
- 30 canalisation (17).

14. Blowing nozzle according to any of the preceding claims, characterised in that the flow-through canalisation (17) consists of one or several ducts (30-32) which open into one or several outlet openings (18), whereby this duct (30) or these ducts (32) are arranged such that the outgoing fluid jet or jets form a vertical as well as a horizontal angle with the longitudinal direction of the reed of the weaving machine.

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15. Blowing nozzle for supporting a weft thread in a weaving machine which is provided with a flow-through canalisation (17) for a fluid flowing into the environment via at least one outlet opening (18), whereby a jet pipe (21) is formed in this flow-through canalisation (17), characterised in that the flow-through canalisation (17) narrows from the part preceding the narrowest section up to this narrowest section of the jet pipe (21), in particular the critical section (22); in that the flow-through canalisation (17) widens as of the critical section (22) up to the outlet opening (18); and in that the part (24) of the flow-through canalisation (17) which extends as of the critical section (22) up to the outlet opening (18) has an upper wall (25) which is made exclusively concave, and has a lower wall which first has a convex curve as of the critical section (22) and then a straight or almost straight curve.

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16. Blowing nozzle for supporting a weft thread in a weaving machine which is provided with a flow-through

canalisation (17) for a fluid flowing into the environment via at least one outlet opening (18), whereby this flow-through canalisation (17) has at least one duct (30-32) in which is integrated a jet pipe (21), characterised in that every duct concerned has a rectangular section at least at the accompanying jet pipe (21).